WHAT IS CLAIMED IS:

1. An image display device, comprising:

first re-size means for reading out image data from a first memory that stores therein image data, and re-sizing the read-out image data;

a second memory for storing the image data re-sized by the first re-size means;

display control means for reading out image data from the second memory and re-sizing the read-out image data in accordance with a variable magnification manipulation for an image to make display means display thereon an image of the re-sized image data; and

re-size control means for, while the variable magnification manipulation is carried out, instructing the display control means to make the display means display thereon the image re-sized by the display control means without newly reading out the image data from the first memory, and after the variable magnification manipulation is fixed, instructing the first re-size means to re-size image data newly read out from the first memory, in accordance with contents of the fixed variable magnification manipulation.

2. An image display device according to claim 1, wherein when the contents of the fixed variable

magnification manipulation correspond to a
predetermined condition, the re-size control means
stores image data which is newly read out from the
first memory, into the second memory without re-

5   sizing.

3. An image displaying method, comprising:

a first re-size step of reading out image data
from a first memory that stores therein image data,

10 and re-sizing the read-out image data;

a storing step of storing the image data re-
sized in the first re-size step in a second memory;
and

a display control step of reading out image

15 data from the second memory and re-sizing the read-
out image data in accordance with a variable
magnification manipulation for an image to make a
display device display thereon an image of the re-
sized image data,

20   wherein while the variable magnification
manipulation is carried out, the display control step
re-sizes and displays the image data read out from
the second memory without newly reading out the image
data from the first memory, and after the variable

25 magnification manipulation is fixed, the display
control step makes the first re-size step re-size
image data newly read out from the first memory, in

accordance with contents of the fixed variable

magnification manipulation.

4. An image displaying method according to

5   claim 3, further comprising the step of, when the

contents of the fixed variable magnification

manipulation correspond to a predetermined condition,

storing image data which is newly read out from the

first memory after the variable magnification

10   manipulation is fixed, without re-sizing.

5. A program for making a computer execute an

image displaying method, comprising:

a first re-size module for reading out image

15   data from a first memory that stores therein image

data, and re-sizing the read-out image data;

a storing module for storing the image data re-

sized in the first re-size module in a second memory;

and

20   a display control module for reading out image

data from the second memory and re-sizing the read-

out image data in accordance with a variable

magnification manipulation for an image to make a

display device display thereon an image of the re-

25   sized image data,

wherein the variable magnification manipulation

is carried out, the display control module re-sizes

and displays the image data read out from the second
memory without newly reading out the image data from
the first memory, and after the variable
magnification manipulation is fixed, the display
5   control module makes the first re-size module re-size
an image of image data newly read out from the first
memory and displays the re-sized image data, in
accordance with contents determined through the
variable magnification manipulation.

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6. A video signal processing apparatus,
comprising:
image pickup means for picking up an image;
recording means for recording the picked-up
15   image on a recording medium;
a memory for reading out the picked-up image
from the recording medium and temporarily storing
therein the read-out image data;
re-size means for reading out the image from
20   the memory and re-sizing the read-out image;
an image display memory for temporarily storing
therein the image re-sized by the re-size means, in
order to display the image; and
re-size display means for reading out an image
25   in a desired area from the image display memory to
re-size and display the read-out image in the desired
area,

wherein while a desired variable magnification manipulation is carried out, the re-size display means reads out the image in the desired area to re-size and display the image read out, and after the

5 variable magnification manipulation is fixed, an original image is read out from the memory and is re-sized by the re-size means to be stored in the image display memory, and the desired area of the re-sized image is displayed without re-sizing.

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7. A video signal processing apparatus according to claim 6, wherein when resolution of the original image becomes insufficient in enlarged image display, after the variable magnification

15 manipulation is fixed out, the original image is stored in the image display memory without being re-sized and the image in the desired area is read out from the image display memory by the re-size display means to be re-sized displayed.

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8. A video signal processing apparatus according to claim 7, further comprising:

compression means for compressing the picked-up image; and

25 expansion means for expanding the compressed image.

9. A video signal processing apparatus according to claim 8, further comprising:

raster-to-block conversion means for inputting raster-sequentially an image signal and generating

5   block-sequentially an image signal of a desired block size; and

block compression means for receiving the image signal generated block-sequentially by the raster-to-block conversion means and compressing the received

10   image signal.

10. A video signal processing apparatus according to claim 8, further comprising:

block expansion means for expanding the image

15   signal which is received block-sequentially and compressed by compression means; and

block-to-raster conversion means for receiving block-sequentially an image signal and generating an image signal raster-sequentially.

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11. A video signal processing method, comprising:

a first storing step of reading out image data from a recording medium and storing the read-out

25   image data in a first memory;

a re-size step of reading out image data from the first memory and re-sizing the image data read

out from the first memory;

a second storing step of temporarily storing
the image data re-sized in the re-size step in an
image display memory to display the image data; and

5   a re-size display step of reading out image
data in a desired area from the image display memory
to re-size and display the image data in the desired
area,

wherein while a variable magnification
10   manipulation is carried out, the image data in the
desired area of the image display memory is read out
to re-size and display the image data in the desired
area, and after the variable magnification
manipulation is fixed, image data is read out from
15   the first memory and is re-sized in the re-size step
to be stored in the image display memory, and the
image data in the desired area in the image display
memory is displayed without being re-sized.

20   12. A video signal processing method,
comprising:

a first display step of, when contents of a
variable magnification manipulation is within a range
of resolution of an original image stored in a memory,
25   reading out the original image from the memory to re-
size the read-out image data in accordance with the
contents and store the re-sized image data in an

image display memory, and displaying a designated range of the image to be stored in the image display memory; and

a second display step of, when the contents of
5   the variable magnification manipulation is beyond the range of the resolution of the original image stored in the memory, reading out the original image from the memory to store the read-out image data in the image display memory without re-sizing, and
10   displaying the designated range of the image of the image data to be stored in the image display memory, by re-sizing the designated range in accordance with the contents.

15   13. A video signal processing method according to claim 12, further comprising the step of, while the variable magnification manipulation is carried out, re-sizing the designated range of the image to be stored in the image display memory, with
20   magnification during the manipulation and displaying the re-sizing range.